

PZS524V3BCH-AU ~ PZS5275BCH-AU Series

Surface Mount Silicon Zener Diode

VOLTAGE 4.3V~75V **POWER** 500 mWatt

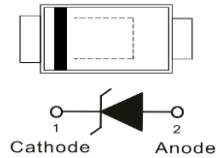
Features

- Planar Die construction
- 500mW Power Dissipation
- Ideally Suited for Automated Assembly Processes
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : SOD-323HE Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.005 grams

SOD-323HE



Maximum Ratings ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNIT
Peak Pulse Power Dissipation at $T_A=25^{\circ}\text{C}$ (Notes 1)	P_D	500	mW
Typical Thermal Resistance (Notes 2)	$R_{\theta JA}$	250	$^{\circ}\text{C} / \text{W}$
Operating Junction Temperature Range	T_J	-55 to +150	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^{\circ}\text{C}$

NOTES :

1. Mounted on a 5mm² copper pads to each terminal.
2. Mounted on a FR-4 PCB, single-sided copper, mini pad.

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Electrical Characteristics (T_A=25°C unless otherwise noted)

Part Number	Nominal Zener Voltage				Nominal Zener Impedance				Max. Reverse Leakage Current		Marking Code
	V _Z @I _{ZT}				Z _{ZT} @I _{ZT}		Z _{ZK} @I _{ZK}		I _R @V _R		
	Nom. V	Min. V	Max. V	mA	Ω	mA	Ω	mA	μA	V	
PZS524V3BCH-AU	4.3	4.08	4.52	5	95	5	600	1	5	1	ACH
PZS524V7BCH-AU	4.7	4.46	4.94	5	78	5	500	1	5	1	BCH
PZS525V1BCH-AU	5.1	4.84	5.36	5	60	5	480	1	0.1	0.8	CCH
PZS525V6BCH-AU	5.6	5.32	5.88	5	40	5	400	1	0.1	1	DCH
PZS526V2BCH-AU	6.2	5.89	6.51	5	10	5	150	1	0.1	2	FCH
PZS526V8BCH-AU	6.8	6.46	7.14	5	8	5	80	1	0.1	3	HCH
PZS527V5BCH-AU	7.5	7.12	7.88	5	7	5	80	1	0.1	5	ICH
PZS528V2BCH-AU	8.2	7.79	8.61	5	7	5	80	1	0.1	6	JCH
PZS528V7BCH-AU	8.7	8.26	9.14	5	7	5	100	1	0.1	6.5	KCH
PZS529V1BCH-AU	9.1	8.64	9.56	5	10	5	100	1	0.1	7	LCH
PZS5210BCH-AU	10	9.5	10.5	5	15	5	150	1	0.1	7.5	MCH
PZS5211BCH-AU	11	10.45	11.55	5	20	5	150	1	0.1	8.5	NCH
PZS5212BCH-AU	12	11.4	12.6	5	20	5	150	1	0.1	9	PCH
PZS5213BCH-AU	13	12.35	13.65	5	25	5	170	1	0.1	10	RCH
PZS5214BCH-AU	14	13.3	14.7	5	25	5	170	1	0.1	10.5	SCH
PZS5215BCH-AU	15	14.25	15.75	5	30	5	200	1	0.1	11	TCH
PZS5216BCH-AU	16	15.2	16.8	5	40	5	200	1	0.1	12	UCH
PZS5217BCH-AU	17	16.15	17.85	5	40	5	200	1	0.1	13	VCH
PZS5218BCH-AU	18	17.1	18.9	5	50	5	225	1	0.1	14	WCH
PZS5220BCH-AU	20	19	21	5	50	5	220	1	0.1	15	XCH
PZS5222BCH-AU	22	20.9	23.1	5	55	5	250	1	0.1	17	YCH
PZS5224BCH-AU	24	22.8	25.2	5	80	5	250	1	0.1	18	ZCH
PZS5227BCH-AU	27	25.65	28.35	5	80	5	300	1	0.1	20	2CH
PZS5228BCH-AU	28	26.6	29.4	5	80	5	300	1	0.1	22	3CH
PZS5230BCH-AU	30	28.5	31.5	5	80	5	300	1	0.1	22.5	4CH
PZS5233BCH-AU	33	31.35	34.65	5	80	5	325	1	0.1	25	6CH
PZS5236BCH-AU	36	34.2	37.8	5	90	5	350	1	0.1	27	7CH
PZS5239BCH-AU	39	37.05	40.95	5	90	5	350	1	0.1	29	9CH

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Part Number	Nominal Zener Voltage				Nominal Zener Impedance				Max. Reverse Leakage Current		Marking Code
	V _Z @I _{ZT}				Z _{ZT} @I _{ZT}		Z _{ZK} @I _{ZK}		I _R @V _R		
	Nom. V	Min. V	Max. V	mA	Ω	mA	Ω	mA	μA	V	
PZS5243BCH-AU	43	40.85	45.15	5	100	5	375	1	0.1	32	AEH
PZS5247BCH-AU	47	44.65	49.35	5	100	5	375	1	0.1	35	BEH
PZS5251BCH-AU	51	48.45	53.55	5	100	5	400	1	0.1	38	CEH
PZS5256BCH-AU	56	53.2	58.8	2.5	135	2.5	1000	1	0.1	42	DEH
PZS5262BCH-AU	62	58.9	65.1	2.5	150	2.5	1000	1	0.1	46	EEH
PZS5268BCH-AU	68	64.6	71.4	2.5	200	2.5	1000	1	0.1	51	FEH
PZS5275BCH-AU	75	71.25	78.75	2.5	250	2.5	1000	1	0.1	56	HEH

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TYPICAL CHARACTERISTIC CURVES

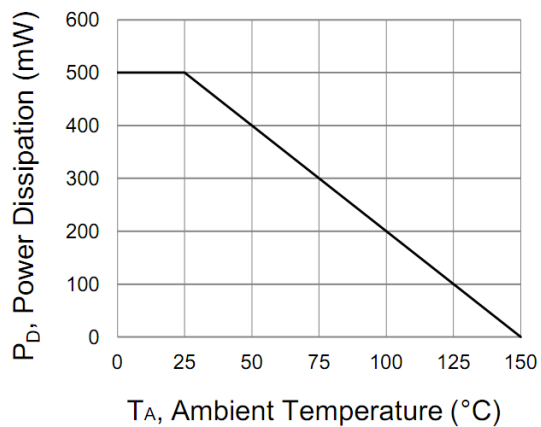


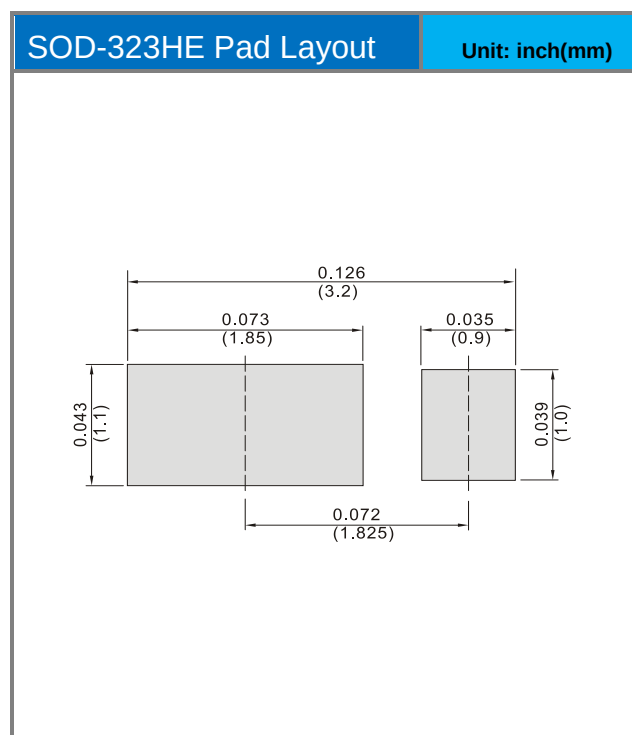
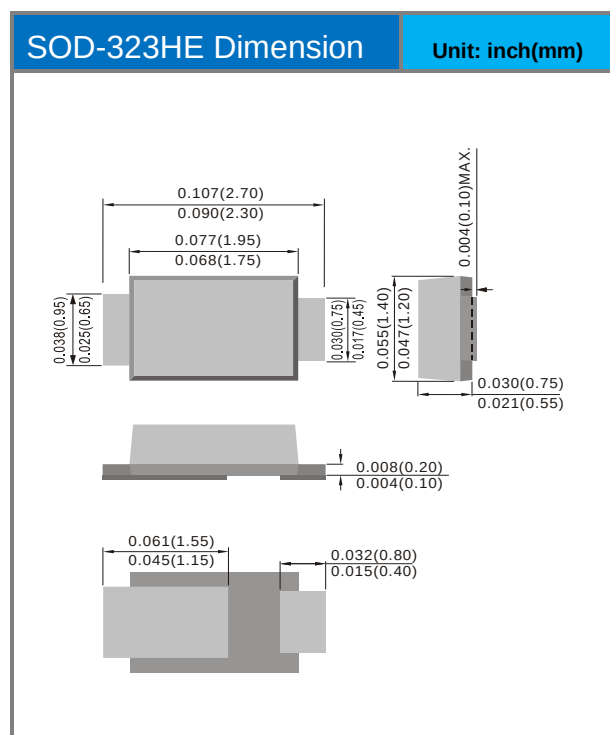
Fig.1 Steady-State Power Derating Curve

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
PZS52xxVxBCH-AU	SOD-323HE	5K pcs / 7" reel	See Table
PZS52xxVxBCH-AU	SOD-323HE	12K pcs / 13" reel	See Table
PZS52xxBCH-AU	SOD-323HE	5K pcs / 7" reel	See Table
PZS52xxBCH-AU	SOD-323HE	12K pcs / 13" reel	See Table

Packaging Information & Mounting Pad Layout



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